

Audio Channel Assignment

The designers of the StudioComm Models 68A and 69A made the decision to assign the audio channels in the order of left, center, right, left surround, right surround, and LFE. It was felt that this was a convenient, rational arrangement, common to many “5.1” installations and one that would fit the needs of most operators. However, not all formats follow this convention. Major audio companies such as Dolby Laboratories and DTS may use different channel assignment schemes in their release formats. It is hoped that careful interconnection of audio signals during installation, or incorporating routing flexibility using a patch bay, will mitigate any significant inconveniences.

Specifications

Model 68A Central Controller

General Audio:

Frequency Response: 20 Hz-20 kHz ± 0.1 dB (down 0.5 dB @ 60 kHz), monitor outputs

Distortion (THD+N): 0.03%, measured at 1 kHz, +4 dBu, monitor outputs

S/N Ratio: 92 dB, ref +4 dBu out

Crosstalk: 78 dB, ref +4 dBu in

Audio Line Inputs: 16, organized as two 6-channel inputs and two 2-channel inputs

Type: electronically balanced, direct coupled

Impedance: 24 k ohms

Nominal Level: -12 dBV to +6 dBu

Input Level Control: 15-turn trim potentiometers allow calibration over -12 dBV to +6 dBu input range

Maximum Input Level: +27 dBu

Common Mode Rejection: 90 dB @ DC and 60 Hz, 85 dB @ 20 kHz, 60 dB @ 400 kHz (typical)

Monitor Outputs: 6-channel surround, 2-channel stereo

Type: electronically balanced, intended to drive balanced or unbalanced loads of 600 ohms or greater

Nominal Level: unity gain, audio inputs to monitor outputs

Maximum Output Level—Balanced: +27 dBu into 10 k ohms, +26 dBu into 600 ohms

Maximum Output Level—Unbalanced: +21 dBu into 10 k ohms, +20 dBu into 600 ohms

Output Impedance—Balanced: 50 ohms

Level Control Method: laser-trimmed voltage-controlled-amplifier integrated circuits manufactured by THAT Corporation

Attenuation Range: 72 dB, nominal, using rotary level control

Bandpass Filter:

Type: created by cascading (connecting in series) a high-pass and low-pass filter; each filter 2nd-order (12 dB-per-octave) Sallen-Key

Response: -3 dB @ 100 Hz and 5 kHz, nominal

Connectors:

Audio: 3, 25-pin D-subminiature female

Control: 2, 9-pin D-subminiature female

AC Mains: 3-blade IEC-type

Remote Control Inputs: 4, HCMOS-type logic, “pulled up” to +5 Vdc using 10 k ohm resistors, activates on closure to system common

AC Mains Requirement:

100, 120, or 220/240 V, $\pm 10\%$, factory configured, 50/60 Hz, 100-120 V 0.4 A maximum, 220/240 V 0.2 A maximum

Dimensions (Overall):

19.00 inches wide (48.3 cm)

1.72 inches high (4.4 cm)

8.75 inches deep (22.2 cm)

Mounting: one space in a standard 19-inch rack

Weight: 8.2 pounds (3.7 kg)

Model 69A Control Console

Application: operates in conjunction with Model 68A Central Controller

Power: provided by Model 68A Central Controller

Output Data: generates MIDI system-exclusive messages

Connector: 1, 9-pin D-subminiature female

Dimensions (Overall):

7.20 inches wide (18.3 cm)

2.20 inches high (5.6 cm)

5.40 inches deep (13.7 cm)

Weight: 1.9 pounds (0.9 kg)

Specifications subject to change without notice.

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